

AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions, and listings, of claims in the application:

LISTING OF CLAIMS:

1-13. (canceled)

14. (original) A metal reactor cell for the treatment of gases comprising overlapping corrugated sheets (2, 3, 12, 13) which can have been formed for instance from a sheet strip by winding, folding, or cutting and stacking, said reactor cell (1,11) optionally comprising other sheets (4, 6) such as flat sheets, perforated sheets, mesh sheets and/or other corrugated sheets, characterized in that said reactor cell (1, 11, 41) has a housing (7, 47) and overlapping sheets (2, 3, 4, 6, 12, 13) are joined to each other so that there are channels (9, 19) between them, and the sheets (2, 3, 4, 6, 12, 13) have been preoxidized and after preoxidation they have been joined by joints (5, 15) made by resistance welding to each other/to sheets (2, 3, 4, 6, 12, 13), to the housing (7, 47) and/or to a part of the housing.

15. (original) The reactor cell according to claim 14, characterized in that other sheets (4, 6) are joined together (4, 6) and/or to overlapping corrugated sheets (2, 3, 12, 13) by joints (5, 15) so that the number of said joints (5, 15) between each overlapping sheets (2, 3, 4, 6, 12, 13) is 10 to 1000 per cm³.

16. (original) The reactor cell according to claim 14, characterized in that said corrugated sheet (2, 3, 6, 12, 13) is a profiled sheet, such as a corrugated sheet (2, 3) or a sheet having V-shaped profiles (6, 12, 13).

17. (original) The reactor cell according to claim 14, characterized in that said cell comprises overlapping corrugated sheets (2, 3, 12, 13), having corrugations (31, 32, 33) at an angle of 10 to 60 degrees relative to each other.

18. (original) The reactor cell according to claim 14, characterized in that said reactor cell (1a) is combined with another reactor cell (1b), said sheets (2a, 2b) of said reactor cells (1a, 1b) being oriented in different directions relative to each other.

19. (original) The reactor cell according to claim 14, characterized in that said reactor cell (51, 52) comprises a conical section, said reactor cell (51, 52) being inserted into a housing (57) having a conical section substantially conforming to the conical section of the reactor cell (51, 52).

20-23. (canceled)

24. (previously presented) A method for manufacturing a metal reactor (1, 11) comprising overlapping corrugated sheets (2, 3, 12, 13) which can have been formed for instance from a sheet strip by winding, folding, or cutting and stacking, said reactor cell (1, 11) optionally comprising other sheets (4, 6) such as flat sheets, perforated sheets, mesh sheets and/or other corrugated sheets, characterized in that said reactor cell (1, 11, 41) has a housing (7, 47) overlapping sheets (2, 3, 4, 6, 12, 13) are being joined to each other so that there are channels (9, 19) between them, and the sheets (2, 3, 4, 6, 12, 13) are being preoxidized and after preoxidation they are being joined together in the joinings (31, 32, 33) of

the sheets (2, 3, 4, 6, 12, 13) by joints (5, 15) made by resistance welding and/or sheets (2, 3, 4, 6, 12, 13) have been joined by joints (5, 8, 10, 15) made by resistance welding to the housing (7, 47) and/or to a part of the housing.

25-26. (canceled)